

# 2016 INDIANA DUNES SCIENCE CONFERENCE: CELEBRATING 100 YEARS OF RESEARCH IN THE INDIANA DUNES

**Ivy Tech Community College –Valparaiso Campus Auditorium**

**April 6 - 8:30 a.m. – 5:00 p.m.**

**8:15 Registration**

**8:45 Welcome**

**8:50 - ACO SIKOSKI, PRESIDENT, IVY TECH COMMUNITY COLLEGE – VALPARAISO CAMPUS**

**9:00 - PAUL LABOVITZ, SUPERINTENDENT, INDIANA DUNES NATIONAL LAKESHORE**

## **Oral Presentations**

**9:10 A Look Back**

THE ECOLOGY OF INDIANA DUNES - PAST, PRESENT AND FUTURE RESEARCH AND CONSERVATION DIRECTIONS - *NOEL B. PAVLOVIC, U.S.G.S. GREAT LAKES SCIENCE CENTER*

SAND MINING IN AND AROUND THE INDIANA DUNES NATIONAL LAKESHORE - *KENNETH J. SCHOON, INDIANA UNIVERSITY NORTHWEST*

INVESTIGATIONS OF THE HYDROLOGIC RESOURCES OF THE INDIANA DUNES NATIONAL LAKESHORE NEAR GREAT MARSH, 1992 THROUGH 2015 - *DAVID C. LAMPE, USGS INDIANA-KENTUCKY WATER SCIENCE CENTER*

**10:10 Break**

**10:25 Biodiversity**

EXPLORING AQUATIC INSECT BIODIVERSITY AT THE INDIANA DUNES NATIONAL LAKESHORE – *DESIREE ROBERTSON, FIELD MUSEUM OF NATURAL HISTORY & IVY TECH COMMUNITY COLLEGE; R. EDWARD DEWALT AND ERIC SOUTH, UNIVERSITY OF ILLINOIS; JOY MARBURGER AND WENDY SMITH, INDIANA DUNES NATIONAL LAKESHORE; VICTORIA BRINSON, VOLUNTEER*

NEW INSIGHTS INTO THE FUNGAL BIODIVERSITY OF THE INDIANA DUNES NATIONAL LAKESHORE - *PETER AVIS, INDIANA UNIVERSITY NORTHWEST*

MAXIMIZATION OF SPECIES RICHNESS AS A CONSERVATION GOAL DURING MANAGEMENT OF INDIANA DUNES LANDSCAPES - *RALPH GRUNDEL AND NOEL PAVLOVIC, U.S.G.S. GREAT LAKES SCIENCE CENTER*

ASSESSING THE CONDITION OF MILLER WOODS USING AN INDEX OF BIOTIC INTEGRITY FOR VERNAL PONDS AND SMALL PALUSTRINE WETLANDS BASED ON FISH, CRAYFISH, AND AMPHIBIAN ASSEMBLAGES, SOUTHERN LAKE MICHIGAN - *THOMAS P. SIMON, INDIANA STATE UNIVERSITY AND CHARLES C. MORRIS, INDIANA DUNES NATIONAL LAKESHORE*

#### **11:45 Panel Discussion**

#### **12:00 Lunch and Poster Session**

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#### **1:00 Implications for Management**

THE HISTORY AND RESTORATION OF COWLES BOG – *DANIEL MASON, INDIANA DUNES NATIONAL LAKESHORE*

A COMPREHENSIVE SURVEY FOR EARLY DETECTION AND RESPONSE TO INVASIVE SPECIES IN INDIANA’S LAKE MICHIGAN TRIBUTARIES - *THOMAS P. SIMON, INDIANA STATE UNIVERSITY*

EDAPHIC ANALOGY: A RAPID METHOD FOR RESTORATION ANALYSIS AND PLANNING USED AT INDIANA DUNES NATIONAL LAKESHORE "USE OF THE EDAPHIC ANALOGY METHOD OF LANDSCAPE RESTORATION AT INDIANA DUNES NATIONAL LAKESHORE." – *JOHN P. TANDARICH, WILBUR WRIGHT CITY COLLEGE OF CHICAGO; DANIEL MASON, INDIANA DUNES NATIONAL LAKESHORE*

SIMULATING THE DISTURBANCE OF WILDLIFE BY RECREATING HUMANS TO IMPROVE PARK MANAGEMENT - *PATRICK ANDREW ZOLLNER, PURDUE UNIVERSITY*

APPLICATAION OF PRIOR REGIONAL HYDROLOGIC STUDIES AT INDIANA DUNES TO FOCUS SCIENTIFIC INQUIRY- *PAUL M. BUSZKA, U.S.G.S. INDIANA-KENTUCKY WATER SCIENCE CENTER*

#### **2:40 Break**

#### **2:55 Challenges and Solutions**

FLUORESCENT SIGNATURES OF MICRO-PLASTICS CONTAINED IN SEDIMENTS FROM BEACHES OF SOUTHERN LAKE MICHIGAN - *CESAR A. GARCIA AND ZORAN KILIBARDA, INDIANA UNIVERSITY NORTHWEST*

CLIMATE CHANGE IN THE GREAT LAKES DUNES: RESPONSES OF THE PLANT COMMUNITY AT SLEEPING BEAR DUNES NATIONAL LAKESHORE - *LUKAS BELL- DERESKE AND JENNIFER RUDGERS, UNIVERSITY OF NEW MEXICO*

RESILIENCE TO CLIMATE VARIATION IN GREAT LAKES NATIONAL PARKS - *ADAM GRIFFITH, UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE; RALPH GRUNDEL AND NOEL PAVLOVIC, U.S.G.S. GREAT LAKES SCIENCE CENTER*

CITIZEN SCIENCE AND WETLAND MONITORING: THE CATTAIL CASE STUDY - *JOY MARBURGER, PURDUE UNIVERSITY NORTH CENTRAL; BETH MIDDLETON, U.S.G.S. NATIONAL WETLANDS RESEARCH CENTER*

ACCESS TO RESEARCH THROUGH THE GREAT LAKES RESEARCH AND EDUCATION CENTER - *WENDY SMITH, N.P.S. GREAT LAKES RESEARCH AND EDUCATION CENTER*

**4:20 Panel Discussion**

**4:35 Close**

## Poster Presentations

INVESTIGATING THE ORIGIN OF COLLAPSE FEATURES AT MOUNT BALDY - *ERIN ARGYILAN AND PETER AVIS, INDIANA UNIVERSITY NORTHWEST; MARK KREKELER, MIAMI UNIVERSITY HAMILTON, HAMILTON; CHARLES MORRIS, INDIANA DUNES NATIONAL LAKESHORE*

QUANTIFYING INTERACTIONS OF SURFACE AND GROUNDWATER IN AN INTERDUNAL WETLAND, WEILAND DITCH, INDIANA DUNES NATIONAL LAKESHORE - *TRAVIS R. COLE AND DAVID C. LAMPE, U.S. G. S. INDIANA-KENTUCKY WATER SCIENCE CENTER*

INVENTORY OF MAYFLIES, STONEFLIES, AND CADDISFLIES IN INDIANA DUNES NATIONAL LAKESHORE: COMPARISON TO REGIONAL SPECIES POOL – *R. EDWARD DEWALT AND ERIC SOUTH, UNIVERSITY OF ILLINOIS; DESIREE ROBERTSON, FIELD MUSEUM OF NATURAL HISTORY; JOY MARBURGER AND WENDY SMITH, INDIANA DUNES NATIONAL LAKESHORE; VICTORIA BRINSON, VOLUNTEER*

LEARNING BY SERVING: UNDERGRADUATE STUDENTS MONITOR THE EFFICACY OF TRAIL CLOSURE METHODS FOR INDIANA DUNES NATIONAL LAKESHORE - *LAURIE EBERHARDT, VALPARAISO UNIVERSITY; LAURA BRENNAN, JOHN KWILOSZ, AND KIMBERLY SWIFT, INDIANA DUNES NATIONAL LAKESHORE*

SURVEYING DRAGONFLY BIODIVERSITY AT THE INDIANA DUNES NATIONAL LAKESHORE - *ERIN GRAY AND YURI LOPEZ, GOVERNORS STATE UNIVERSITY*

METHYLMERCURY POLLUTION IN THE WETLANDS OF INDU AND NORTHWESTERN INDIANA: AN OVERVIEW OF FIELD INVESTIGATIONS - *ROBERT HUDSON, UNIVERSITY OF ILLINOIS*

USGS-NPS PARTNERSHIP: 20 YEARS OF AQUATIC RESEARCH IN THE GREAT LAKES -  
*MEREDITH NEVERS AND MURULEE BYAPPANAHALLI, U.S.G.S. GREAT LAKES SCIENCE CENTER*

**Field Trips, Thursday, April 7 8:00 a.m.**

Explore Cowles Bog, the Great Marsh, and Miller Woods with the experts!

**Pre-registration for field trips is required by March 25.**

**Meet at the Indiana Dunes National Lakeshore Visitor Center.**

